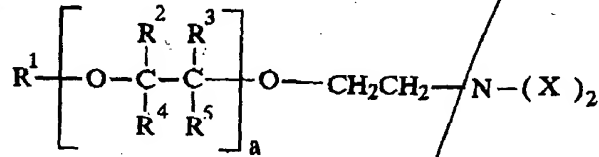


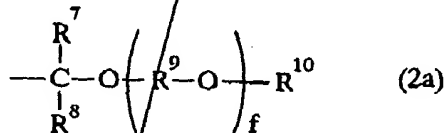
Sub
B1 7

--13. (New) A gasoline additive for a direct injection gasoline engine which comprises a nitrogen-containing compound represented by the formula:



A1

wherein R^1 is selected from the group consisting of hydrogen and a $C_1 - C_{30}$ hydrocarbon group, R^2 , R^3 , R^4 and R^5 are each independently selected from the group consisting of hydrogen, a $C_1 - C_{16}$ hydrocarbon group and a group of the formula (2a) below, a is an integer from 1 to 200 and X is a group selected from Group B below, said formula (2a) being



wherein R^7 and R^8 are each independently selected from the group consisting of hydrogen, a $C_1 - C_{10}$ hydrocarbon group and a $C_2 - C_{10}$ alkoxyalkyl group, R^9 is a $C_2 - C_6$ alkylene group or a $C_4 - C_{10}$ alkylene group having an alkoxyalkyl substituent, R^{10} is hydrogen or a $C_1 - C_{30}$ hydrocarbon group, and f is an integer from 0 to 50; said Group B being constituted by

(B1) hydrogen,

Sub
B1
cont.

(B2) a C₁ - C₃₀ hydrocarbon group,

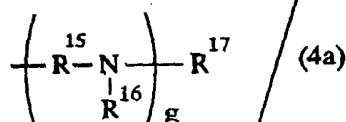
(B3) an alkanol group represented by the formula



wherein R¹⁴ is a C₁ - C₆ alkylene group,

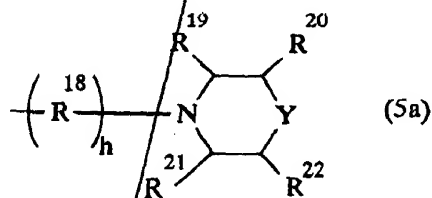
(B4) a nitrogen-containing group represented by the formula

A1



wherein R¹⁵ is a C₂ - C₆ alkylene group, R¹⁶ is selected from the group consisting of hydrogen, a C₁ - C₄ alkyl group, and a group of the formula (3a), R¹⁷ is selected from the group consisting of hydrogen, a C₁ - C₃₀ hydrocarbon group and a group of the formula (3a), and g is an integer from 1 to 5, and

(B5) a group represented by the formula



wherein R¹⁸ is a C₂ - C₆ alkylene group, R¹⁹, R²⁰, R²¹, and R²² are each independently selected from the group consisting of hydrogen, a C₁ - C₁₀ hydrocarbon group and a hydroxyl group, Y is selected from the group consisting of a methylene group and a methylene group substituted by either a C₁ - C₁₀ hydrocarbon group, a hydroxyl group, an imino group, an imino

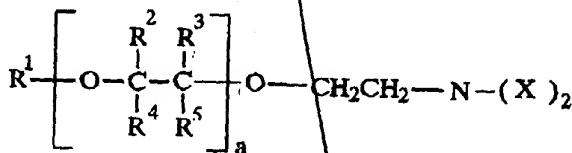
Sub B1 Cont.
group substituted by a C₁ - C₁₀ hydrocarbon group or a hydroxy group, or oxygen, and h is equal to 0 or 1.

14. (New) The gasoline additive according to claim 13, wherein R¹ is hydrogen or a C₁ - C₁₂ straight or branched alkyl group. B

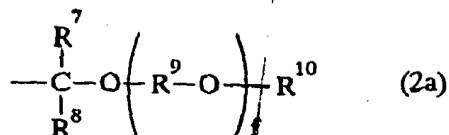
15. (New) The gasoline additive according to claim 13, wherein R², R³, R⁴, and R⁵ are each independently selected from the group consisting of hydrogen, a C₁ - C₁₂ straight or branched alkyl group and a group represented by formula (2a) wherein R⁷ and R⁸ are each independently hydrogen or a C₁ - C₃ alkyl group, R¹⁰ is a C₁ - C₁₂ alkyl group, and f is equal to 0.

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16. (New) The gasoline additive according to claim 13, wherein X is (B1) or (B3) and wherein (B3) is a group represented by formula (3a) in which R¹⁴ is a C₂ - C₃ alkylene group.

17. (New) A gasoline composition for use in a direct injection gasoline engine, which composition comprises a nitrogen-containing compound represented by the formula:



wherein R¹ is selected from the group consisting of hydrogen and a C₁ - C₃₀ hydrocarbon group, R², R³, R⁴ and R⁵ are each independently selected from the group consisting of hydrogen, a C₁ - C₁₆ hydrocarbon group and a group of the formula (2a) below, a is an integer from 1 to 200 and X is a group selected from Group B below, said formula (2a) being



wherein R^7 and R^8 are each independently selected from the group consisting of hydrogen, a $\text{C}_1 - \text{C}_{10}$ hydrocarbon group and a $\text{C}_2 - \text{C}_{10}$ alkoxyalkyl group, R^9 is a $\text{C}_2 - \text{C}_6$ alkylene group or a $\text{C}_4 - \text{C}_{10}$ alkylene group having an alkoxyalkyl substituent, R^{10} is hydrogen or a $\text{C}_1 - \text{C}_{30}$ hydrocarbon group, and f is an integer from 0 to 50;

said Group B being constituted by

(B1) hydrogen,

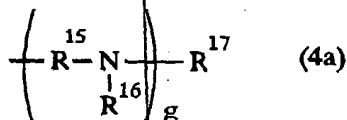
(B2) a $\text{C}_1 - \text{C}_{30}$ hydrocarbon group,

(B3) an alkanol group represented by the formula



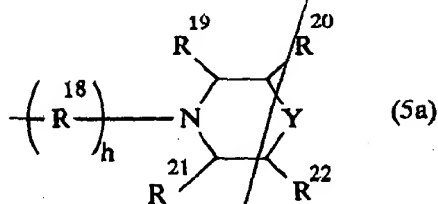
wherein R^{14} is a $\text{C}_1 - \text{C}_6$ alkylene group,

(B4) a nitrogen-containing group represented by the formula



wherein R^{15} is a $\text{C}_2 - \text{C}_6$ alkylene group, R^{16} is selected from the group consisting of hydrogen, a $\text{C}_1 - \text{C}_4$ alkyl group, and a group of the formula (3a), R^{17} is selected from the group consisting of hydrogen, a $\text{C}_1 - \text{C}_{30}$ hydrocarbon group and a group of the formula (3a), and g is an integer from 1 to 5, and

(B5) a group represented by the formula



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wherein R^{18} is a $C_2 - C_6$ alkylene group, R^{19} , R^{20} , R^{21} , and R^{22} are each independently selected from the group consisting of hydrogen, a $C_1 - C_{10}$ hydrocarbon group and a hydroxyl group, Y is selected from the group consisting of a methylene group and a methylene group substituted by either a $C_1 - C_{10}$ hydrocarbon group, a hydroxyl group, an imino group, an imino group substituted by a $C_1 - C_{10}$ hydrocarbon group or a hydroxy group, or oxygen, and h is equal to 0 or 1.

18. (New) The gasoline composition according to claim 17, wherein the nitrogen-containing compound is contained in an amount of 0.001 to 10 mass percent, based on the total composition.

19. (New) The gasoline composition according to claim 17, wherein R^1 is hydrogen or a $C_1 - C_{12}$ straight or branched alkyl group.

20. (New) The gasoline composition according to claim 17, wherein R^2 , R^3 , R^4 , and R^5 are each independently selected from the group consisting of hydrogen, a $C_1 - C_{12}$ straight or branched alkyl group and a group represented by formula (2a) wherein R^7 and R^8 are each independently hydrogen or a $C_1 - C_3$ alkyl group, R^{10} is a $C_1 - C_{12}$ alkyl group, and f is equal to 0.